

#YWH-PGM3903-55 UNDER REVIEW

/ SSRF leads to internal server port scanning on www.grupobancolombia.com

GRUPO BANCOLOMBIA BUG BOUNTY PROGRAM

SUBMITTED BY PABLOSS ON 2023-02-10

REPORT DETAILS

Server-Side Request Forgery (SSRF) (CWE-918) **BUG TYPE**

https://www.grupobancolombia.com SCOPE

ENDPOINT

SEVERITY Medium header VULNERABLE PART PART NAME Host

Host: 127.0.0.1:§80§ PAYLOAD TECHNICAL ENVIRONMENT Windows OS, Burpsuite

APPLICATION FINGERPRINT HCL Digital Experience, Webpshere

88.1.192.48 IP USED UNDEFINED PATCH STATUS UNTRACKED TRACKING STATUS

CVSS SCORE **SEVERITY MEDIUM VECTOR STRING** CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:C/C:L/ I:N/A:N

DOCUMENTS

/imagen1.png

/imagen2.png

/imagen3.png

/imagen4.png

/imagen5.png

/imagen6.png

/imagen7.png

/imagen8.png

#YWH_TRIAGED

BUG DESCRIPTION

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Description

A Host header based SSRF was discovered by modifying the host headr to point to localhost. This forced redirection to internal HCL Digital Experience exposing technology in use and also allowed to discover internal open ports not accesible from the internet.

Exploitation

1 - I first started by noticing the difference between trying to access the site root normally https://www.grupobancolombia.com/ , without modifying the Host header, which returned the normal site as expected:



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2 - Then I replayed the same action, trying to visit the root of https://www.grupobancolombia.com/ but modified the Host header to 127.0.0.1:443, which returned the HCL Digital Experience login page but pointing the Location to 127.0.0.1. Modified Host header



3 - The visited the same url returned from the Location header received but changing the base address from 127.0.0.1 to www.grupobancolombia.com, and the

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confirmed that the HCL DX console was accessible without modifying the Host header this time.



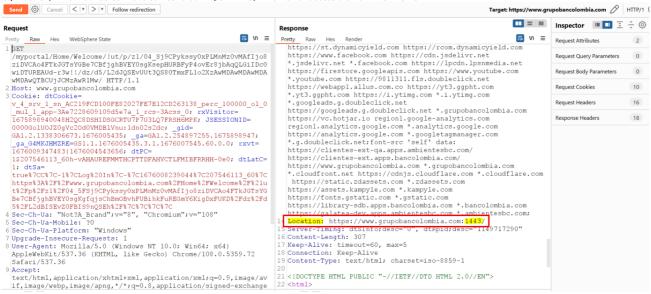


Welcome to Your

Digital Experience



4 - I attempted to register into de platform but clicking on the register button was giving me the same Welcome page over and over again. So I clicked on the login button, which redirected me to samesite but in port 1443, which is not accessible from the internet.

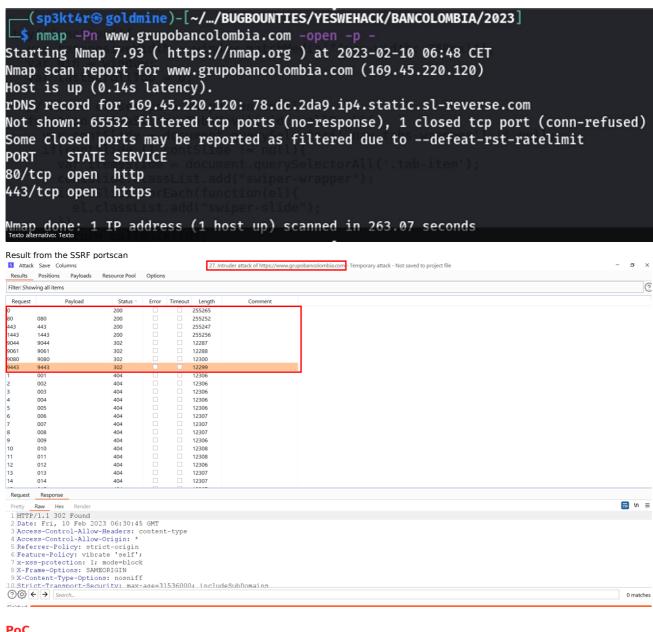


5 - Knowing that the port 1443 was potentially opened internally for employees to login to HCL DX, I verified if pointing the Host header to 127.0.0.1 on different ports would trigger a different response when the port was open internally. So I set up intruder to send requests with a Host header pointing to the 127.0.0.1 fuzzing the port numbers. As a result, the application returned a list of ports that are open to http traffic internally. Intruder Payload Settings



Ports accessible from internet

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PoC

Please refer to exploitation steps

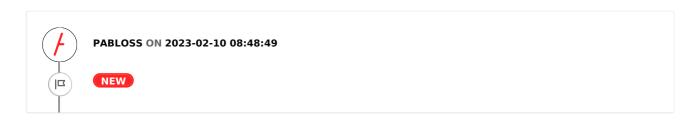
Risk

An attacker could not only gain information of the open ports on the application server, but also attack other applications within the range of the appserver.

Remediation

Refrain from routing requests internally based on Host header

COMMENTS



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TRIAGER_SKE ON 2023-02-10 09:05:24



NEW → UNDER REVIEW



Hi Pabloss,

Thanks for your submission.

Your report will be reviewed by our team and updated in a timely manner.

Regards.



TRIAGER_SKE ON 2023-02-10 11:10:05

PRIVATE



Hello,

We were able to reproduce the described behavior. Server-side request forgery (SSRF) vulnerabilities allow attackers to cause the server-side application to make requests to an unintended location.

On www.grupobancolombia.com, the Host header is vulnerable to a Blind SSRF, this allows enumerating the open ports on www.grupobancolombia.com.

Proof of Concept

/ You have to send the following request in the Burp intruder (with the payload placed on the host header port). By listing payload numbers from 1 to 9999, it seems possible to enumerate the ports open locally by looking at the 200 or 302 responses: (The target must be

https://www.grupobancolombia.com:443)

GET / HTTP/1.1

Host: 127.0.0.1:§80§

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:100.0) Gecko/20100101 Firefox/100.0 X-BUGBOUNTY-BC4-X

The following ports appear to be open:

/ 80 - 200 OK

/ 443 - 200 OK

/ 1443 - 200 OK

/ 9044 - 302 Found

/ 9061 - 302 Found

/ 9080 - 302 Found

In case of a closed port, the server returns a 403 Forbidden response

About the CVSS vector, we suggest updating it to:

/ "Attack Complexity" from "Low" to "High" - As it stands, it could only be a reconnaissance for the first stage of an attack.

To obtain an adequate score equals to **4.0**, with a "Medium" severity.

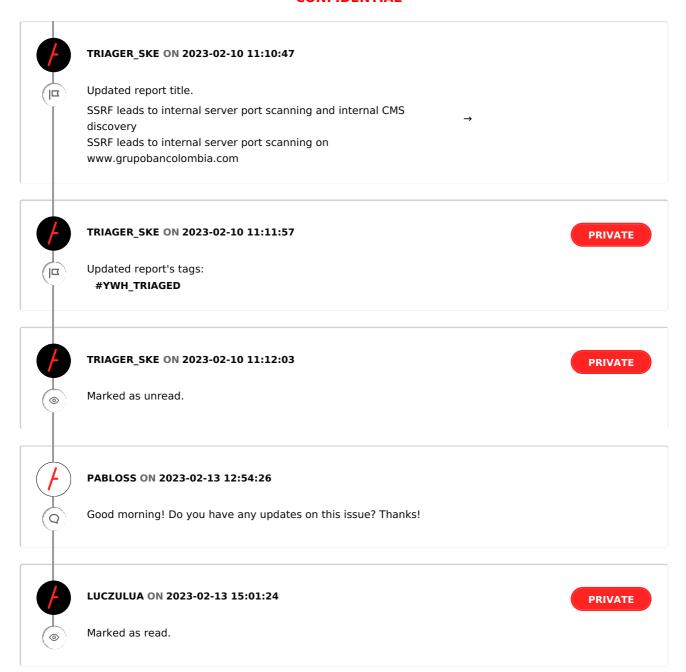
For this report and considering the reward grid for this scope, the reward could be: \$350.

Regards,

Samuel

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CONFIDENTIAL



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